MECHANICAL SCAN TYPE ULTRASONIC PROBE

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Abstract of **JP4322642**

PURPOSE:To eliminate a long cycle of image oscillation on a display screen by setting the number of teeth on the drive and driven sides of a transmission mechanism to an integer ratio. CONSTITUTION:A toothed pulley 3B and a toothed belt 3C are used as mechanism for transmitting a driving force of a motor 1 with an encoder to an ultrasonic vibrator 2. When a number of tooth ratio between the toothed pulley 3B and the toothed belt 3C is set at 1:N(N=integer), the toothed pulley 3B is meshed with the original teeth at a rotation of N and proportionally, one cycle of oscillation of a display image corresponds to the N rotation of the ultrasonic vibrator. As the oscillation cycle of the display image is shorter, the oscillation can not be checked sensorsally and thus, the number of teeth ratio N is preferably smaller.